

Temerty  
Medicine

# Institute of Medical Science

IMS faculty and learners are world-renowned leaders in translational research, discoveries and innovation that improve human health.

**Dr. Lucy Osborne, Interim Director, IMS**  
Professor of Medicine and Molecular Genetics



Institute of Medical Science  
**UNIVERSITY OF TORONTO**

# What makes us unique?

## Large

- Largest graduate unit in Temerty Faculty of Medicine with over 500 learners & 700 faculty

## Diverse

- Clinician-scientists, basic scientists, and graduate students all conduct research that impacts health
- Multidisciplinary research themes including neuroscience, cancer, population health & more

## Bench to bedside

- Translation of fundamental discoveries in basic science to improved clinical care, preventative medicine, and health promotion

## An Institute “without walls”

- Learners and faculty widely dispersed across U of T and affiliated hospital research institutes



Institute of Medical Science  
UNIVERSITY OF TORONTO



# Notable Faculty



**Kwame McKenzie**

Eminent psychiatrist, public-health thought leader, and policy advisor dedicated to improving mental health and equity.



**Daniel Drucker**

Renowned endocrinologist and pioneer in the treatment of diabetes, known for his research on GLP-1 and GLP-2.



**Molly Shoichet**

Biomedical engineer and innovator responsible for pioneering work in tissue engineering, drug delivery and regenerative medicine.



**Lisa Robinson**

Dean of TFoM, whose career spans cutting-edge kidney research, impactful youth outreach and leadership in diversity and medical education.



**Sandra Black**

Distinguished neurologist known for her contributions to the treatment and understanding of stroke, vascular dementia and Alzheimer's.

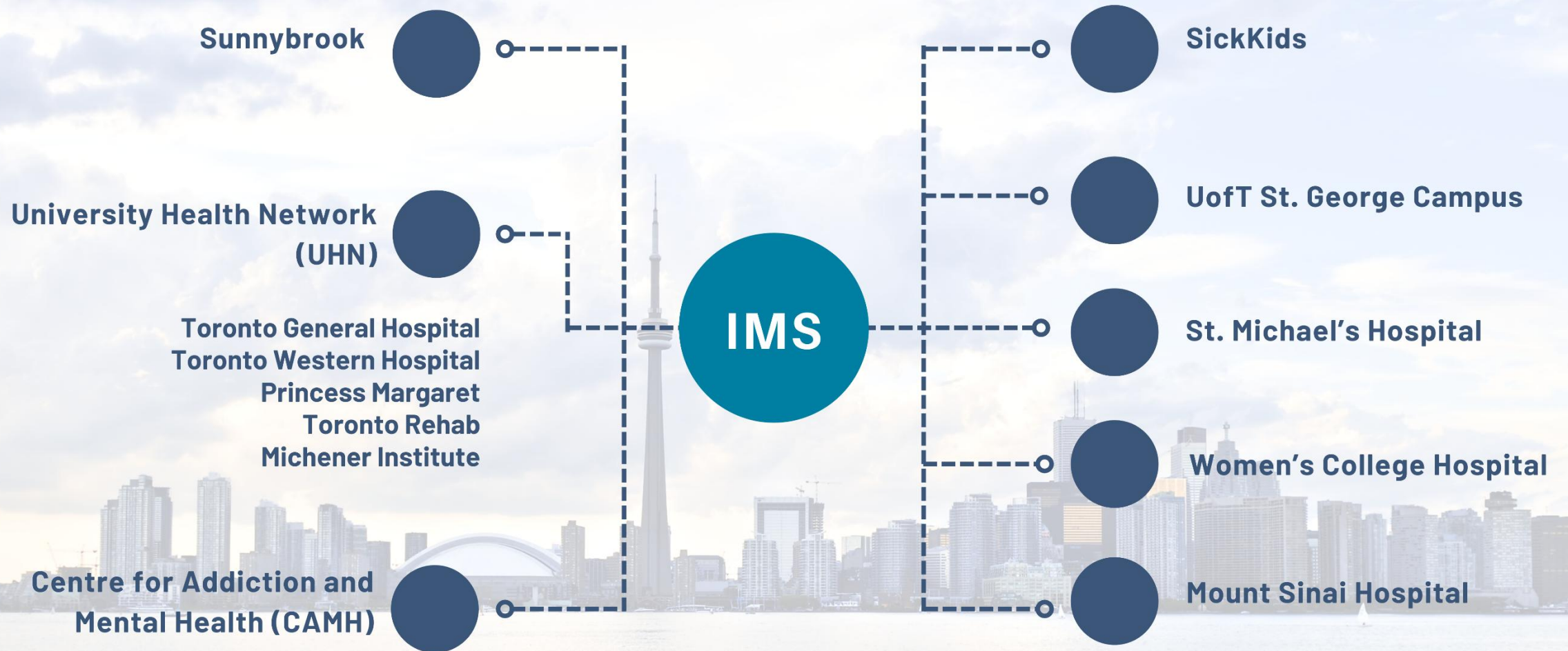


**Steven Narod**

A world-leader in the fields of breast and ovarian cancer genetics. Canadian Medical Hall of Fame inductee.

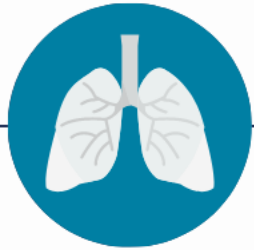


# Major Research Sites



# From the Lab to the Real World:

A sample of the groundbreaking research we do at IMS



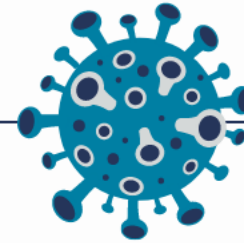
**Build  
artificial  
lungs**



**Repair  
injured  
spinal cords**



**Machine  
learning to  
improve  
patient  
outcomes**



**Drug  
development  
for infectious  
disease**



**Develop  
global health  
strategies**



Institute of Medical Science  
**UNIVERSITY OF TORONTO**

**Temerty  
Medicine**

**All research stream students are fully  
funded by their supervisors.**

## **IMS Graduate Programs:**

### **Master of Science (MSc)**

- 2-year research intensive program

### **Doctor of Philosophy (PhD)**

- 5-year research intensive program
- Direct entry (PhDU) – 6-year program





# Range of specialized courses and collaborative specializations



**Human Anatomy**



**Regenerative  
Medicine**



**Statistics**



**Molecular  
Medicine**



**Neuroscience**



**Resuscitation  
Sciences**



**Environment  
and Health**



**Indigenous  
Health**



**Women's  
Health**



**Toxicology**

***And more....***



Institute of Medical Science  
**UNIVERSITY OF TORONTO**

**Temerty  
Medicine**

# What are we looking for in an applicant?

## Academic Preparation

- **MSc Degree:** 4-year Honours BA or BSc, or MD from recognized university, minimum A- annual average in 3 of 4 years (including final year) of undergrad degree
- **PhD Degree:** MSc (or equivalent) with research-based defended thesis (2 years) from recognized university; minimum A- average in previous grad program; minimum B+ (77%) average in previous undergrad program (including final year)
- **PhD Direct-Entry:** For outstanding candidates without a previous 2 years Master's thesis degree

## Motivation to Conduct Research

- Research experience (summer program, research course, master's degree)
- Research presentations and authorship on scientific papers
- Application for external funding
- Proposed research project

## References

- MSc (2) and PhD (3) required from faculty members
- At least one reference must be from a faculty member who you conducted research with





# Where do our MSc students go?

## Professional schools\*

- Medical School
- Dental School
- Business School
- Nursing/Physiotherapy/Other

## Public health sector

- Research coordinators
- Research analysts
- Lab managers
- Lab technologists

## Private health sector

- Research development
- Pharmaceutical industry
- Business administration

## Transfer to PhD

- Outstanding MSc students can transfer to PhD program within 18-22 months without defending thesis

*\*25% of students already  
have a medical degree*



# Where do our PhD graduates go?

## Academia (57%)

- Postdoctoral fellows
- Faculty positions
- Top Employers: UofT, York, Metropolitan U, McMaster, Western, UBC

## Public sector (25%)

- Hospitals
- Government
- Health services
- Top Employers: UHN, SickKids, Toronto District School Board, CAMH, St. Mike's, Government of Ontario, Health Canada

## Private health sector (11%)

- Pharmaceutical industry
- Finance
- Top Employers: Google, Intel, Royal Bank, Jansen, Scotia Bank, Sanofi





# Notable Alumni



**Trevor Young**

Former Dean, Temerty  
Faculty of Medicine and Vice-  
Provost, Relations with  
Health Care Institutions



**Catharine Whiteside**

Former Dean of Medicine  
and Founding Member,  
Canadian Academy of  
Health Sciences



**Gelareh Zadeh**

Head of Neurosurgery,  
Toronto Western Hospital



**Robert Bell**

Former Deputy Minister,  
Ontario Ministry of Health  
and Long Term Care



**Shaf Keshavjee**

Surgeon-in-Chief, Sprott Surgery  
University Health Network



**Aristotle Voineskos**

Vice President of Research,  
Centre for Addiction and  
Mental Health



For further information, please visit:

[ims.utoronto.ca](https://ims.utoronto.ca)